

## IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

### Listing of Claims

*(through to be cancelled)*

7. (currently amended) A multi-band radio terminal apparatus comprising:  
a transmitter/receiver for processing radio communication signals of a plurality of communication frequency bands, said radio communication signals being used to communicate with a base station;

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a first frequency converter for frequency-converting the frequency bands of said radio communication signals between the communication frequency bands and an intermediate frequency band;

a second frequency converter for converting said radio communication signals between base-band signals and an intermediate frequency signal; and

a base-band signal processing circuit for handling a conversion between said base-band signals and audio signals,

wherein said second frequency converter includes a second local oscillator for producing a second local oscillator signal, and a mixer for using said second local oscillator signal so as to convert a transmission base-band signal into a transmission intermediate frequency signal.

wherein said first frequency converter includes:

one reception-sided mixer for converting a reception signal within the communication frequency band bands into another reception signal within the intermediate frequency band,

one transmission-sided mixer for converting a transmission signal within the intermediate frequency band into another transmission signal within the communication frequency ~~bandbands~~, and

a first local oscillator for commonly supplying a first local oscillator signal to both said reception-sided mixer and said transmission-sided mixer, ~~and~~

~~a mixer for using said second local oscillator signal so as to convert a transmission base band signal into a transmission intermediate frequency signal,~~

wherein said second local oscillator includes: ~~a plurality of oscillators having different~~ outputs a plurality of oscillating frequency frequencies ~~from each other, and a switch for selectively supplying the oscillator outputs of said plural oscillators to said mixer, wherein said switch selects a frequency out of said different frequencies in response to the frequency band of the radio signal used in the communication between the base station and the multi-band radio terminal apparatus.~~

8. (new): A multi-band radio terminal apparatus according to claim 7, wherein said second local oscillator comprises:

a plurality of oscillators for outputting the oscillating frequencies; and

a switch for selectively supplying the oscillating frequencies output by said oscillators to said mixer,

wherein said switch selects one of said oscillating frequencies in response to the frequency band of the radio signal used in the communication between the base station and the multi-band radio terminal apparatus.

9. (new): A multi-band radio terminal apparatus comprising:

a transmitter/receiver for processing radio communication signals of a plurality of communication frequency bands, said radio communication signals being used to communicate with a base station;

a frequency converter for frequency-converting the frequency bands of said radio communication signals between the communication frequency bands and low frequency bands which are lower than said communication frequency bands,

wherein said frequency converter includes:

one reception-sided mixer for converting a reception signal within the communication frequency bands into another reception signal within one of the low frequency bands,

one transmission-sided mixer for converting a transmission signal within one of the low frequency bands into another transmission signal within a corresponding communication frequency band, and

a local oscillator for commonly supplying a local oscillator signal to both said reception-sided mixer and said transmission-sided mixer,

wherein said local oscillator outputs a plurality of oscillating frequencies in response to the frequency band of the radio signal used in the communication between the base station and the multi-band radio terminal apparatus.

10. (new): A multi-band radio terminal apparatus according to claim 9, wherein said local oscillator comprises:

a switch for selectively supplying one of the oscillating frequencies to said mixers,

wherein said switch selects one of said oscillating frequencies in response to the frequency band of the radio signal used in the communication between the base station and the multi-band radio terminal apparatus.

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